



SONY®

2-067-182-01 (1)

Bluetooth GPS Unit

Owner's Record

The model and serial numbers are located on the rear of the unit.
Record the serial number in the space provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. GU-BT1 Serial No. _____



GU-BT1

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Warning

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled exposure, this device and its antenna must not be co-located or operating in conjunction with any other antenna transmitter.

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Introduction

This unit is able to determine its current location. Connecting this unit to a Sony Personal Entertainment Organizer (hereafter referred to as CLIE handheld) with Bluetooth communication capability allows you to indicate your current location on the "Leplan" map, and to display the distance and route to a destination. For details about display items and functions of "Leplan," refer to the "Application manual."

About Bluetooth communication

Bluetooth communication is a new wireless technology for the personal network market. It is the leading standard technology for small scale, close distance communication at low cost, achieved without the need for complicated cable connections.

GU-BT1 has the following features.

Bluetooth support enables wireless communication with your CLIE handheld within a range of about 10 m (32.8 ft.). (The actual range will vary depending on factors such as obstacles between devices, magnetic fields around devices such as a microwave oven, static electricity, interference, radio wave conditions, reception sensitivity or antenna performance, operating system or software application, etc.)

Devices that can be used with GU-BT1

For information on the Bluetooth compatible devices, refer to our official Sony CLIE Web site:

Customers in USA, Canada and Mexico:

<http://www.ita.sel.sony.com/support/clie/access/>

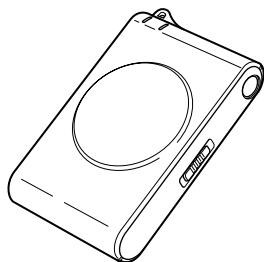
Customers in Asia-Pacific countries:

<http://vaio-online.sony.com/clie/>

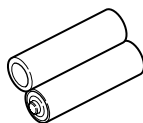
Confirming the package contents

Please confirm that all the following accessories are included in the package.

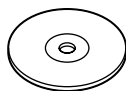
- Bluetooth GPS unit (1)



- AA dry battery (2)



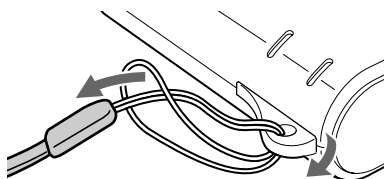
- Strap (1)
- CD-ROM (1) (Application installation disc)



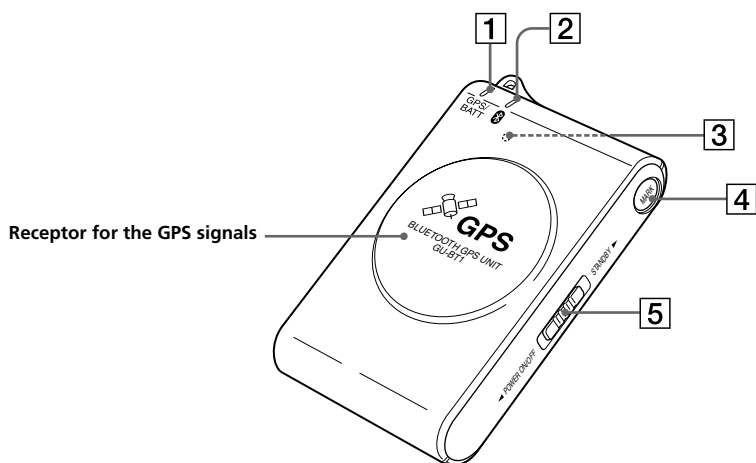
- Operating Instructions (1)
- Application manual (1)
- Warranty card (1)

Use the strap to avoid dropping your Bluetooth GPS unit

Attaching the strap



Location of controls



- 1 GPS/BATT LED
- 2 Bluetooth LED
- 3 CLEAR button (on the back of this unit)
- 4 MARK button
- 5 POWER ON/OFF STANDBY switch

Inserting a battery

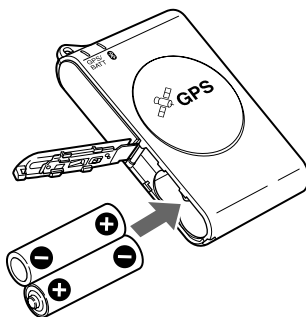
Insert 2 AA dry batteries (supplied)
(Sony AA alkaline batteries or nickel hydrogen rechargeable batteries recommended)

1 Slide the cover down and lift open.

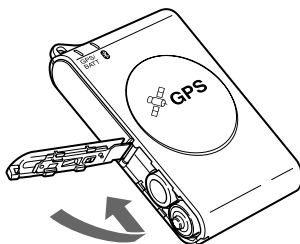


2 Insert 2 AA dry batteries.

Insert with the + and – terminals of the batteries aligned with the + and – marks of this unit.



3 Close the cover and slide it back into position until it clicks.



You can use the batteries in this unit for about 12 hours continuously (at normal temperatures).

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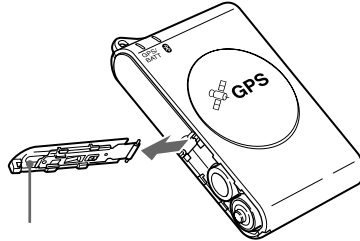
7

When the battery charge gets low

When the battery charge gets low, the GPS/BATT LED turns from green to orange. Replace the batteries as soon as possible, when the charge gets low.

Battery compartment cover

The battery compartment cover may come off if the unit is subjected to excessive shock.



If the battery compartment cover comes off, align the hinge tabs of the battery compartment cover to the hinge clasps of the unit, and gently snap the cover into place.



How to use this unit

Before inserting batteries

Note

Before you perform wireless communication for the first time between this unit and your CLIÉ handheld, you need to install "Leplan" into your CLIÉ handheld. For details, refer to the "Application manual."

When you connect this unit to your CLIÉ handheld for the first time

When you connect this unit to your CLIÉ handheld for the first time, you need to bond your CLIÉ handheld. For details, refer to the "Application manual" or "Read this first" of your CLIÉ handheld.

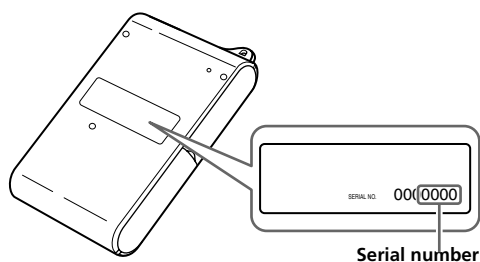
What is "bonding"?

To enable Bluetooth communication between this unit and your CLIÉ handheld, you must register your CLIÉ handheld on this unit. This process is referred to as "bonding," which is necessary to prevent access from another, unauthorized Bluetooth compatible CLIÉ handheld. A common Passkey is used to bond your device to this unit.

What is a Passkey?

A Passkey is a secret code entered by the user to enable 2 Bluetooth compatible devices to communicate.

Location of the Passkey



The Passkey is the last 4 digits in the serial number on the back of this unit. Once connection is authorized, you do not need to enter your Passkey again to connect.

Up to 8 CLIÉ handhelds can be registered. If you register a further CLIÉ handheld, the oldest previously registered Passkey is erased.

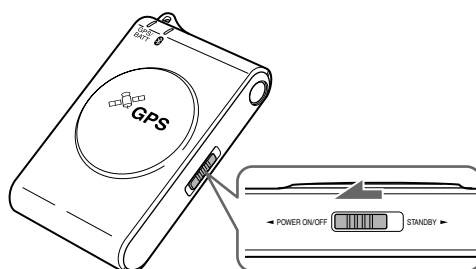
Turning on this unit

Notes

- Do not turn on or operate this unit onboard an aircraft. This may interfere with the aircraft instruments.
- Signals from GPS satellites cannot be received indoors in a tunnel, etc.

Turning on this unit

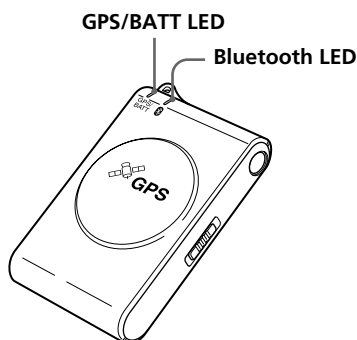
Slide the **POWER ON/OFF STANDBY** switch to the **POWER ON/OFF** position.



The power switch returns to the **STANDBY** position automatically when you release it.

Turning on this unit

- Short beeps are emitted and the **GPS/BATT LED** lights green when this unit is turned on. Then positioning of your current location starts. It will take ten seconds or more to position. After positioning is completed, the blink pattern changes.
- The **Bluetooth LED** lights blue. Then this unit starts to connect to your **CLIE** handheld. When the connection is complete, the blink pattern of **Bluetooth LED** changes.



Turning off this unit

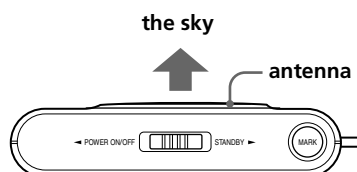
Slide the **POWER ON/OFF STANDBY** switch to the **POWER ON/OFF** position. A short beep and then a long beep is emitted.

Confirming your current location by your CLIÉ handheld

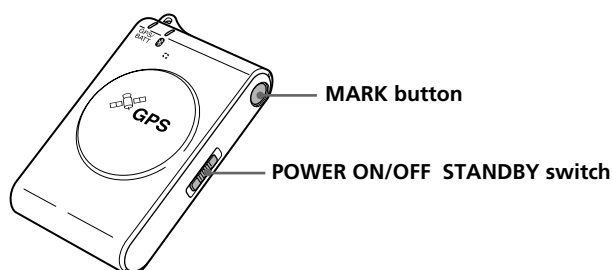
You can confirm the GPS receiving signal and the Bluetooth communication condition in addition to your current location. For details, refer to the "Application manual."

When your current location cannot be displayed correctly

Find a location with as much open sky as possible, position the antenna upwards towards the sky, and wait for a minute.

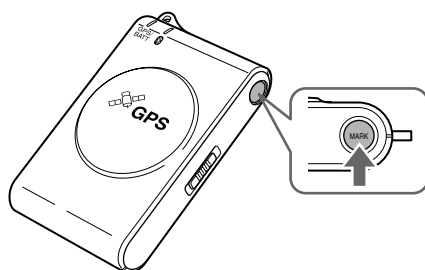


Other functions



MARK function

The MARK function records your current location. When you press the MARK button, a beep is emitted, then positioning information (date, hour, latitude and longitude) of your current location is recorded in the memory of this unit. The maximum number of points that can be recorded is 16.



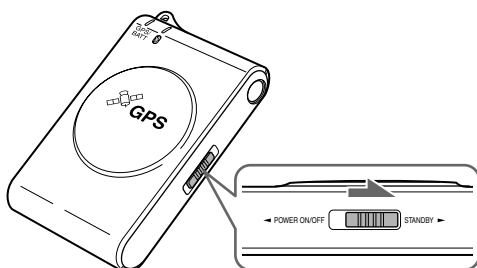
Tips

- This unit can only record up to 16 MARK information points. When the limit is reached, to record a new MARK information point, you must delete all the MARKs, and then record a new MARK. To delete all the MARKs, press the MARK button on the unit for more than 3 seconds. All recorded MARK information points are deleted. (We recommend saving the MARK information points on your CLIÉ handheld.)
- If the MARK information fails to record, the GPS/BATT LED alternately blinks green and orange 4 times. Press the MARK button again to record the information.
- You can determine the recording status by the beep emitted.
 - MARK information recording: 3 short beeps
 - MARK information unable to record: 5 short beeps
 - MARK information deleting: 1 short beep and 1 long beep

STANDBY mode

When you slide the POWER ON/OFF STANDBY switch to the STANDBY position, a beep is emitted, and the blinking interval of the GPS/BATT LED is longer than usual.

When the "Leplan" on your CLIÉ handheld is turned on and connected to this unit, GPS function starts positioning. When the "Leplan" is turned off, connection to this unit is canceled and the power is turned off to save the battery.

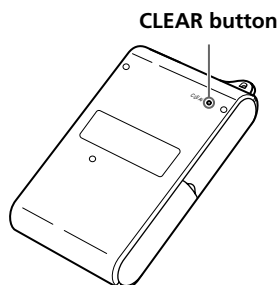


Auto Power off function

If the connection between this unit and your CLIÉ handheld is broken for 15 minutes, this unit turns off automatically.

CLEAR button

When you press the CLEAR button, a short beep is emitted, and the GPS/BATT LED and Bluetooth LED blink 4 times. A long beep is emitted again and the unit is turned off. This unit then goes back to the initial mode, and any information recorded (registration device information and MARK information) is deleted. It may cause a malfunction if you press the CLEAR button too forcefully.



Specifications

GPS Communication

Reception frequency	1575.42 MHz (L1 band, C/A code)
Reception method	12 channel all in view
Reception sensitivity	Tracking: -152 dBm Trapping: -139 dBm
Positioning update time	Approx. 1 second
Positioning accuracy	5 m (16.4 ft.) (2DRMS, -130 dBm)

Wireless Communication

Communication method	Bluetooth standard Ver. 1.1
Output	Bluetooth standard Power Class 2
Communication range* ¹	line of sight Approx. 10 m (32.8 ft.)
Supported Bluetooth profiles* ²	Serial Port Profile
Frequency band	2.4 GHz band (2.400 GHz – 2.4835 GHz)

*¹ Actual range will vary depending on factors such as obstacles between devices, magnetic fields around devices such as a microwave oven, static electricity, interference, radio wave conditions, reception sensitivity or antenna performance, operating system or software application, etc.

*² Bluetooth standard profiles specify the usage purpose for Bluetooth devices communicating with each other.

*³ Design and specifications are subject to change without notice.

Power Source/General*³

Power source	DC 3.0 V (AA dry battery × 2, alkaline batteries recommended)
Power consumption	MAX 360 mW
Operating temperature	0 °C – 40 °C (32 °F – 140 °F)
Operating life	Approx. 12 hours (at temperature 25 °C (77 °F)) Operating life is different according to the working temperature and environment.
Dimensions	60 × 89 × 18 mm (2 ³ / ₈ × 3 ⁵ / ₈ × 23 ²³ / ₃₂ in.)(w/h/d) (not including projections)
Mass	Approx. 72 g (3 oz.)(not including dry batteries)
Supplied accessories	See page 5.

About Bluetooth communication

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